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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,883	07/18/2003	Juha Salokannel	4208-4136	2755

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EXAMINER

PAN, YUWEN

ART UNIT PAPER NUMBER

2618

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	03/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/622,883

Applicant(s)

SALOKANNEL ET AL.

Examiner

Yuwen Pan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 February 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,9-12,18-25,31-34 and 38-43 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,9-12,18-25,31-34 and 38-43 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/01/07 has been entered.

DETAILED ACTION

Response to Arguments

2. Applicant's arguments with respect to claims 1-3, 9-12, 18-25, 31-34 and 38-43 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-3, 9-12, 18-25, 31-34 and 38-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ollis et al (US006999721B2) in view of Awater et al (US007046649B2) and in further view of Sainton et al (US006934558B1).

Per claim 1, Ollis discloses a system for integrating a plurality of short-range communication protocols, comprising: a unified object transfer mechanism for enabling a enhanced host controller to share use of an RF transceiver between a plurality of communication modules using a plurality of short-range communications protocols (see column 3 and lines 45-63 and figure 1), a direct interface between the user and the multi-mode device and the device itself keeping a list of different wireless protocol link list (see figure 3-6, corresponding columns and lines number), a direct interface between the user and the multi mode device and the device itself keeping a list of different wireless protocol link list in which a host such as application layer for user to select and determine who to connect, the device would execute command from the user and establish connection according to user's selection which indicate who to be connect first (see figure 3-6, column 7 and lines 14-column 8 and lines 2). For the plurality of communication modules shares one RF transceiver.

The examiner believes that Ollis should have such features since there is only one antenna shown in figure 1. For the sake of the argument, the examiner would like to introduce Awater reference. Awater teaches that a plurality of communication modules shares one RF transceiver (see figure 2). It is well known in the art to share one RF transceiver when there is more than one RF mode in a portable device. Such implementation is obvious to one ordinary skill in the art to maintain or reduce to size of the portable device (see abstract).

Combination of Ollis and Awater doesn't expressly teach that a priority order for send the host command is part of signal protocol. Sainton teaches that a user could select his/her desired communication module based on setting by the user. In other word, based on the availability of wireless protocols, the device would pick one over the other based on the user's desires (see

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column 2 and lines 44-56). It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Sainton with the combination of Ollis and Awater such that it would provide more access or interaction to the user.

Same arguments apply, *mutatis mutandis*, to independent claims 10, 20, 23, and 32.

Pre claims 2 and 3, Ollis further teaches that the plurality of short-range communication protocols operation in same frequency area (see column 1 and lines 40-50, at least between Bluetooth and IEEE 892.11b standard in which utilize ISM band).

Same arguments apply, *mutatis mutandis*, to claims 11, 12, 24, and 25.

Per claim 21 and 22, Ollis further teaches a direct interface between the user and the multi mode device and the device itself keeping a list of different wireless protocol link list (see figure 3-6, corresponding columns and lines number).

Same arguments apply, *mutatis mutandis*, to claims 21, 22, 33 and 34.

Pre claim 9, Ollis further teaches that at least one signaling protocol for enabling the enhanced host controller to communication with at least one of the plurality of communication modules employing at least one of the plurality of short range communication protocols (see figure 3).

Same arguments apply, *mutatis mutandis*, to claims 19, and 31.

Per claim 18, Ollis further teaches that the device is one of a cellular phone laptop computer or a PDA (see figure 1).

Per claim 38, Ollis further teaches that the plurality of communication modules comprises at least three substantially concurrently operating communication modules (see figure 2 and item 212-214, column 7, lines 42-45).

Same arguments apply, *mutatis mutandis*, to claim 40 and 42.

Per claim 39, Ollis further teaches that an order of the enabled communication modules is based on the user selection of whom he/she is going to communicate with (see figure 7 and column 6 and lines 59-column 8 and lines 2).

5. Claims 4-6, 13-17, 26-28, and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ollis et al (US006999721B2), Awater et al (US007046649B2) and Sainton et al (US006934558B1) in view of applicant admitted prior art (hereinafter, APA).

Per claim 4-6, Ollis discloses an analogous art as recited in claims 1, 10, 20, 23 and 30. Ollis doesn't teach the plurality of short-range communication protocols including LEE communication protocol and RFID communication protocol. APA discloses the LEE allows Bluetooth devices to communicate with other devices with other devices that are developed for low-cost and low-power communications and various RFID tags have been developed to be compatible with Bluetooth that operates in the 2.4 GHz radio band (see page 2). It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of APA with Ollis's device such that it is easy for user to operate such multi wireless mode device without knowing all the short-range protocols.

Same arguments apply, *mutatis mutandis*, to claims 13-17, 26-28, and 35.


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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuwen Pan whose telephone number is 571-272-7855. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anderson D. Matthew can be reached on 571-272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Yuwen Pan
February 28, 2007